

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

15

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 10/18/2019		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO: a. NAME OF CONSIGNEE Office of Research and Development	
3. ORDER NO. 68HERC20F0025		4. REQUISITION/REFERENCE NO. PR-ORD-19-01717			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: JAMES BURKE a. NAME OF CONTRACTOR National Academy of Sciences b. COMPANY NAME				f. SHIP VIA	
c. STREET ADDRESS 500 FIFTH STREET NW				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON				e. STATE DC	f. ZIP CODE 200012736
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 10/17/2020	
				16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 TOCOR: Dahnish Shams Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO: a. NAME RTP Finance Center						
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						17(i) GRAND TOTAL
	c. CITY Durham		d. STATE NC	e. ZIP CODE 27711		\$706,378.00	

22. UNITED STATES OF AMERICA BY (Signature) 10/18/2019

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES

PAGE NO

SCHEDULE - CONTINUATION

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
10/18/2019	68HERC19D0011	68HERC20F0025

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 10/18/2019 to 10/17/2020</p> <p>New Task Order Request under NAS Contract #68HERC19D0011. Funding for New NAS Task Order - Technical Expertise Support on EPA Scientific Issues and Topics; \$873,739.14 Please use \$100,000.00 and pull into award PR-ORD-19-01482 (Initial Contract Award Funding). Funding to be used on first NCEA New Task Order Request.</p> <p>Total New Task Order Request Amount: \$973,739.14</p> <p>NAS Contract: 68HERC19D0011 TO No.: TBD TOCOR: Dahnish Shams ALTOCOR: Vicki Soto CO: Mark Cranley CS: William Yates Acquisition Division: CAD CL COR: Glennis Reslock ALT CL COR: Jorge Rangel NO IT Codes or FITARA necessary</p> <p>Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-1926 2SC912-001 BFY: 19 EFY: 20 Fund: C Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC912-001 Funding Flag: Partial Funded: \$0.00 Accounting Info: 19-20-C-262S000-000F84-2532-26A5C-1926 2SC910-001 BFY: 19 EFY: 20 Fund: C Continued ...</p>					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
3

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10/18/2019	68HERC19D0011	68HERC20F0025

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Budget Org: 262S000 Program (PRC): 000F84 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262SC910-001 Funding Flag: Partial Funded: \$100,000.00					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)

Contract #68HERC19D0011

PR-ORD-19-01717

Task Order #68HERC20F0025

I. TITLE: Technical Expertise Support on Environmental Protection Agency (EPA) Scientific Issues and Topics

II. Task Order Contracting Officer Representative(s):

Task Order Contracting Officer Representative (TOCOR) Name: Dahnish Shams Office: ORD/NCEA/IRIS William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8602R, Room No. 71205 Washington, DC 20460 Phone: (202) 564-2758 Email: shams.dahnish@epa.gov	Alternate Task Order Contracting Officer Representative (Alt. TOCOR) Name: Vicki Soto Office: ORD/NCEA/IRIS William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8602R, Room No. 71205 Washington, DC 20460 Phone: (202) 564-3077 Email: soto.vicki@epa.gov
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III. PERIOD OF PERFORMANCE: Date of Task Order award through 12 months following award.

IV. PURPOSE OF TASK ORDER

The purpose of this task order (TO) is to engage with the scientific community to address key science issues pertinent to the development of human and ecological assessments. This TO will (1) provide EPA with independent scientific and technical input from recognized experts for up to five (5) external or internal EPA-led meetings or workshops that will address key science issues, (2) convene National Academy of Sciences (NAS)-led workshops and/or meetings on topics related to the assessment methodology including systematic review, new approach methods (NAM), hazard identification, and dose-response, and (3) peer-review of draft assessment documents.

V. BACKGROUND

EPA's National Center for Environmental Assessment (NCEA) is a leader in the science of human health and environmental risk assessments. NCEA champions the development and use of health and environmental assessments by interacting with other agencies, the scientific community, industry, policy-makers, and the public. This TO would provide a mechanism and forum to discuss science topics and gain critical input from experts identified by the NAS. The NAS is widely viewed as an impartial, knowledgeable, and respected organization, capable of ensuring audience acceptance of products with which it is associated. The NAS is also able to provide EPA access to a full range of scientific and technical experts and to thoroughly screen such experts for conflicts of interests and a lack of impartiality.

VI. SCOPE OF WORK

The NAS shall provide the EPA with a mechanism to recruit NAS identified subject-matter experts and when necessary, provide a forum for discussion(s) on science topics pertinent to the development of human and ecological assessments. Forums may include either EPA or NAS-led meetings/workshops. EPA and NAS-led meetings and/or workshops shall address key science topics including, but not limited to systematic review, new assessment methods (NAM), hazard identification, dose-response, and other scientific issues identified relevant for peer-review of draft assessment documents.

VII. DESCRIPTION OF TASKS

Task 1. Recruitment of Technical Expertise to Support EPA Meetings and Workshops

Task 1 provides EPA with technical expertise input at internal and external meetings or workshops by experts identified by NAS. Identified experts shall be selected with consideration for insuring diversity of scientific perspective and the absence of conflicts of interest and a lack of impartiality. Identified experts shall substantially contribute to achieving a balanced consideration to address scientific and technical issues. The following tasks shall be performed for each of five (5) meetings or workshops to be specified by EPA.

Subtask 1.1 – Pre-Meeting: Convene a meeting between EPA and NAS to review assessments and scientific/technical issues to be discussed at meeting or workshop. NAS shall prepare a project milestone chart outlining the timeline for recruitment and check-ins. EPA will initiate a request for recruitment of experts through the generation of a one-page background document outlining the scope of the meeting/workshop and will also summarize scientific issues to be discussed at each meeting/workshop and any pertinent EPA work products(s).

EPA will notify NAS of the scientific/review topics anticipated to be discussed for each meeting or workshop approximately 90 days before the meeting. After notification, an initial meeting shall occur within seven (7) days of EPA identifying the topics and anticipated issues.

Subtask 1.2 – Recruit Experts: Identify a proposed group of up to four (4) subject matter experts (SMEs) who are (a) recognized experts in the field(s) relevant to the request, (b) represent a range of broadly recognized views on the issues identified by EPA, (c) are available to present and discuss their individual views at the meeting or workshop, and (d) have been evaluated for conflict of interest or lack of impartiality.

Subtask 1.3 – Post-Recruitment Meeting: Provide the EPA TOCOR a proposed list of SMEs including a biographical sketch, proposed area of expertise for each SME, and if there are any issues regarding potential conflict of interest (COI) or impartiality. Convene a meeting with the EPA and NAS to review the proposed list of SMEs.

EPA will provide comments on the proposed list regarding qualifications and COI/impartiality. NAS shall determine who will participate in each meeting or workshop. NAS shall then deliver a final list of participants.

Subtask 1.4 – Expert Logistic Support: NAS shall coordinate meeting logistics information (e.g., webinar and teleconference information) between EPA and the SMEs. Generally, these meetings are expected to be conducted via webinar but if necessary, NAS shall make arrangements for transportation, lodging and logistical support for each SMEs asked to participate in the meeting or workshop to be held in Washington, D.C.-or another location as specified by EPA-for up to two (2) meetings.

Subtask 1.5 – Comment Compilation: NAS shall compile non-consensus input from each SME on topics discussed at the meeting/workshop for delivery to EPA. NAS shall ensure that the compiled comments are in an appropriate format for EPA to post in Regulations.gov chemical-specific docket.

Task 2 – NAS-Led Meetings and Workshops to Support Assessment Development

NAS shall convene and facilitate up to two (2) workshop(s) and/or meeting(s) to support understanding of topic(s) pertinent to assessment development. The workshop(s) and/or meetings(s) are to assist EPA in increasing quality, transparency, and confidence in its assessments by discussing scientific and the public issues related to systematic review, hazard identification, new approach methods (NAM), dose-response, and other issues. NAS shall provide recognized national and international experts an opportunity to discuss critical science topics relevant to NCEA’s scientific activities (e.g., assessment development).

Subtask 2.1 – Initial meeting: Convene a meeting with the EPA and NAS to review the topics and issues to be discussed at the workshop(s). EPA will identify the topics and review issues via email anticipated to be discussed for each workshop approximately six months before the workshop. If necessary, EPA will provide a one-pager with the necessary background information. This preliminary meeting shall occur within seven (7) days of EPA identifying the topics and anticipated issues.

Subtask 2.2 – Establish a workshop planning committee: NAS shall establish an expert panel of up to 10 experts to organize up to two workshops following its procedures on committee composition, balance, and conflict of interest.

Subtask 2.2 – Establish a workshop agenda and a list of participants: NAS shall convene up to 15 experts to participate in the workshop. NAS shall identify and contact non-federal and federal subject matter experts who are (a) recognized experts in the field(s) and issues relevant to the workshop, (b) represent a range of recognized views on the issues identified by EPA, and (c) are available to present and discuss their research and individual views at the public workshop. Experts with an understanding of regulatory risk assessment (e.g., chemical hazards) are generally preferred. NAS shall provide the EPA TOCOR a proposed list of experts including a biographical sketch, proposed area of expertise for each expert, and if there are any issues regarding potential COI or impartiality. NAS shall convene a meeting with the EPA TOCOR and ORD management and technical staff to review the proposed list of experts. EPA may provide comments on the

proposed list regarding qualifications and COI/impartiality. NAS shall determine who will participate in the workshop.

Subtask 2.3. – Conduct the workshop(s)/meeting(s): NAS shall convene and facilitate up to two (2) workshops/meetings to discuss topics and/or issues pertinent to assessment development. In coordination with the NAS, EPA will provide a general description of the desired goals and outcomes of each workshop/meeting. NAS shall provide EPA with a list of all registrants and participants after the workshop/meeting via email.

Subtask 2.4. – Make arrangements for transportation, lodging and logistical support for each expert asked to participate in the workshop(s)/meeting(s).

NAS shall arrange provision for transportation, lodging, and any other logistical support for the experts' participation in the workshop(s)/meeting(s).

Task 3 - Review of EPA's Draft Assessment Document

EPA requests that NAS perform an expert external peer review on one (1) draft NCEA assessment or assessment materials (e.g., Toxicological Review of Inorganic Arsenic) to evaluate whether the scientific literature was adequately evaluated by EPA, and whether appropriate methods were used to synthesize the scientific evidence and arrive at the conclusions. The NAS expert peer review committee shall evaluate the assessment's conclusions using the charge questions set forth by EPA and shall not conduct an independent assessment. EPA will identify the topics and review issues via email. If necessary, EPA will provide a one-pager with the necessary background information. Task 3 will consist of three (3) subtasks.

Subtask 3.1. – Establish expert panel

EPA requests that NAS establish an expert panel of up to 15 experts following their procedures on committee composition, balance, and conflict of interest. Recommended areas of expertise include the following:

- Public health risk assessment expertise, especially current experience supporting regulatory decisions in the context of the available scientific information for public health and environmental protection (e.g., state risk assessors). It would be preferable if this expert(s) has demonstrated experience with systematic review methods for environmental exposures;
- Environmental epidemiology, especially in the areas of cancer, reproductive, and respiratory effects (i.e., multiple experts are needed);
- Toxicology, especially in the areas of respiratory effects, neurotoxicology, and/or reproductive/developmental toxicology. It would be useful, but not essential, if one of these experts had experience with biological modeling (e.g., dosimetric modeling; physiologically-based modeling);
- Exposure measures for observational epidemiology studies of environmental and occupational exposures; and
- Dose-response analysis of environmental chemicals, especially current experience with data analysis for human exposure studies, including observational studies.

Subtask 3.2. – Conduct an independent external peer review and convene a meeting(s)

EPA requests that NAS conduct an independent external peer review of the draft NCEA assessment or assessment materials (e.g., Toxicological Review of Inorganic Arsenic). In coordination with NAS, EPA will transmit charge questions, along with the external peer review draft assessment materials, prior to the peer review. EPA also requests that NAS organize an external peer review meeting(s) for the peer review panel to discuss the draft assessment with EPA and to include an opportunity for public comment.

Subtask 3.3. – Prepare report based upon listed Tier Levels

The expert peer review committee shall develop, reflecting panel consensus where possible, a final report on their review and evaluation of the EPA document. Within the peer review report, the NAS shall promote clarity and the timely completion of the draft NCEA assessment materials (e.g., Toxicological Review of Inorganic Arsenic) by prioritizing and/or tiering recommendations provided to EPA under the following system:

Tier 1: Recommended Revisions— Important revisions for EPA to consider and address in order to improve the critical scientific concepts, issues, and/or narrative within the assessment.

Tier 2: Suggested Revisions – Revisions that are encouraged to strengthen or clarify the scientific concepts, issues, and/or narrative within the assessment but are not critical. Other factors (e.g., Agency practice and resources) may need to be considered by EPA before undertaking these revisions.

Tier 3: Future Considerations— Useful and potentially informative scientific exploration that may inform future evaluations of key science issues and/or inform the development of future assessments. These recommendations are likely outside the immediate scope and/or needs of the assessment under review.

VIII. Deliverables

The products of the NAS tasks for activity are as follows:

Task 1 Deliverables

- a) EPA requests that a template for a project milestone chart that will be applied to each meeting be provided to the EPA Contracting Officer (CO), Contract Level Contracting Officer Representative (CL COR), and TOCOR within 30 days of task initiation. This project milestone chart should detail the significant activities for each meeting/workshop, as well as expected progression of the deliverables.
- b) The primary products for each meeting/workshop are expected to be: (a) proposed and final lists of experts including biographical sketches, which will participate in each of the five (5) meetings or workshops specified by EPA, (b) review of potential COI and partiality issues for each expert and report of any potential issue to the EPA CO, CL COR, and ORD management, and (c) develop a document of compiled comments from each expert to provide to EPA that may be published externally.

- c) Participation of the experts in ORD meetings or workshops. Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the meetings or workshops.

Task 2 Deliverables

- a) EPA requests that written progress reports be provided to the EPA CO, CL COR, and TOCOR quarterly and after each meeting including an update of the project milestones.
- b) For all public meetings requested, the EPA CO, CL COR, and TOCOR shall be informed via email of the time, location, and agenda of the meeting at least 45 days prior to the meeting. All communications regarding public meetings should go through the EPA CO, CL COR, and TOCOR. The NAS shall provide EPA with a final list of all meeting attendees and public commenters within five (5) business days of the meeting.
- c) The primary products for each review are expected to be: (a) proposed and final lists of experts including biographical sketches, which will participate in each of the two (2) meetings or workshops specified by EPA, and (b) review of potential COI and partiality issues for each expert and report of any potential issue to the EPA CO, CL COR, and ORD management.
- d) Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the workshops.
- e) If public websites or similar means are used to disseminate information to the public during the course of this task, the EPA CO, CL COR, and TOCOR shall be notified of the location of such information (e.g., websites), as well as relevant changes to them.

Task 3 Deliverables

- a) EPA requests that written progress reports be provided to the EPA CO, CL COR, and TOCOR quarterly and after each meeting including an update of the project milestones.
- b) For all public meetings requested, the EPA CO, CL COR, and TOCOR shall be informed via email of the time, location, and agenda of the meeting at least 45 days prior to the meeting. All communications regarding public meetings should go through the EPA CO, CL COR, and TOCOR. The NAS shall provide EPA with a final list of all meeting attendees and public commenters within five (5) working days of the meeting.
- c) The primary products for each review are expected to be: (a) proposed and final lists of experts including biographical sketches, (b) written confirmation that review of potential COI and partiality issues for each expert was completed and report of any potential issue to the EPA CO ORD management, and the public on the NAS website, (b) any submitted public comments, and (c) a final consensus peer review report or summary.
- d) Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the workshops.
- e) If public websites or similar means are used to disseminate information to the public during the course of this task, the EPA CO and TOCOR shall be notified of the location of such information (e.g., websites), as well as relevant changes to them.

IX. ACCEPTANCE CRITERIA

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow, as well as, technical accuracy, completeness, timeliness, grammatically correct, free of typographical errors, and conformance with the specific task, charge and expertise and deliverables of this Performance Work Statement. The technical information shall be reasonable complete and presented in a logical, readable manner. Text deliverables shall be provided in Microsoft Word 2010, Adobe Acrobat or compatible format. Deliverables will be accepted upon review and approval by the TOCOR.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(x)			
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0025			
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13)			
041964057				10/18/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$706,378.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
TOCOR: Dahnish Shams							
LIST OF CHANGES:							
Reason for Modification: This will be a "FIX" mod to correct the "Mismatch" between EAS/FPDS and the CPS system. The error was discovered during the "Data Call" for the "Mismatch Report." This "Fix" mod will correct the amount showing in the "Amount" field for item 1 which shows zeros. With this corrective mod, EAS/FPDS will match what is in the CPS system. Because this is a "FIX" mod, RTP will process this mod as an administrative mod and "NOT" as a funding mod.							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 ELECTRONIC SIGNATURE (Signature of Contracting Officer)		01/16/2020	
(Signature of person authorized to sign)							

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0025/P00001	PAGE	OF
		2	14

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$706,378.00 to \$806,378.00 Obligated Amount for this Modification: \$706,378.00 Incremental Funded Amount changed from \$100,000.00 to \$806,378.00</p> <p>CHANGES FOR DELIVERY LOCATION: ORD CIN Amount changed from \$706,378.00 to \$806,378.00</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/18/2019 to 10/17/2020</p>				

PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)

Contract #68HERC19D0011

PR-ORD-20-00642

Task Order #68HERC20F0025

Amendment 1

I. TITLE: Technical Expertise Support on Environmental Protection Agency (EPA) Scientific Issues and Topics

II. Task Order Contracting Officer Representative(s):

Task Order Contracting Officer Representative (TOCOR) Name: Dahnish Shams Office: ORD/CPHEA/CPAD William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8602R, Room No. 71205 Washington, DC 20460 Phone: (202) 564-2758 Email: shams.dahnish@epa.gov	Alternate Task Order Contracting Officer Representative (Alt. TOCOR) Name: Vicki Soto Office: ORD/CPHEA/CPAD William Jefferson Clinton Building 1200 Pennsylvania Avenue, N.W. Mail Code: 8602R, Room No. 71204 Washington, DC 20460 Phone: (202) 564-3077 Email: soto.vicki@epa.gov
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III. PERIOD OF PERFORMANCE: Date of Task Order award through 12 months following award.

IV. PURPOSE OF TASK ORDER

The purpose of this task order (TO) is to engage with the scientific community to address key science issues pertinent to the development of human and ecological assessments. This TO will (1) provide EPA with independent scientific and technical input from recognized experts for up to five (5) external or internal EPA-led meetings or workshops that will address key science issues, (2) convene National Academy of Sciences (NAS)-led workshops and/or meetings on topics related to the assessment methodology including systematic review, new approach methods (NAM), hazard identification, and dose-response, and (3) peer-review of draft assessment documents.

V. BACKGROUND

EPA's Center for Public Health and Environmental Assessment (CPHEA) is a leader in the science of human health and environmental risk assessments. CPHEA champions the development and use of health and environmental assessments by interacting with other agencies, the scientific community, industry, policy-makers, and the public. This TO would provide a mechanism and forum to discuss science topics and gain critical input from experts identified by the NAS. The NAS is widely viewed as an impartial, knowledgeable, and respected organization, capable of ensuring audience acceptance of products with which it is associated. The NAS is also able to provide EPA access to a full range of

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VI. SCOPE OF WORK

The NAS shall provide the EPA with a mechanism to recruit NAS identified subject-matter experts and when necessary, provide a forum for discussion(s) on science topics pertinent to the development of human and ecological assessments. Forums may include either EPA or NAS-led meetings/workshops. EPA and NAS-led meetings and/or workshops shall address key science topics including, but not limited to systematic review, new assessment methods (NAM), hazard identification, dose-response, and other scientific issues identified relevant for peer-review of draft assessment documents.

VII. DESCRIPTION OF TASKS

Task 1. Recruitment of Technical Expertise to Support EPA Meetings and Workshops

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Subtask 1.1 – Pre-Meeting: Convene a meeting between EPA and NAS to review assessments and scientific/technical issues to be discussed at meeting or workshop. NAS shall prepare a project milestone chart outlining the timeline for recruitment and check-ins. EPA will initiate a request for recruitment of experts through the generation of a one-page background document outlining the scope of the meeting/workshop and will also summarize scientific issues to be discussed at each meeting/workshop and any pertinent EPA work products(s).

EPA will notify NAS of the scientific/review topics anticipated to be discussed for each meeting or workshop approximately 90 days before the meeting. After notification, an initial meeting shall occur within seven (7) days of EPA identifying the topics and anticipated issues.

Subtask 1.2 – Recruit Experts: Identify a proposed group of up to four (4) subject matter experts (SMEs) who are (a) recognized experts in the field(s) relevant to the request, (b) represent a range of broadly recognized views on the issues identified by EPA, (c) are available to present and discuss their individual views at the meeting or workshop, and (d) have been evaluated for conflict of interest or lack of impartiality.

Subtask 1.3 – Post-Recruitment Meeting: Provide the EPA TOCOR a proposed list of SMEs including a biographical sketch, proposed area of expertise for each SME, and if there are any issues regarding potential conflict of interest (COI) or impartiality. Convene a meeting with the EPA and NAS to review the proposed list of SMEs.

EPA will provide comments on the proposed list regarding qualifications and COI/impartiality. NAS shall determine who will participate in each meeting or workshop. NAS shall then deliver a final list of participants.

Subtask 1.4 – Expert Logistic Support: NAS shall coordinate meeting logistics information (e.g., webinar and teleconference information) between EPA and the SMEs. Generally, these meetings are expected to be conducted via webinar but if necessary, NAS shall make arrangements for transportation, lodging and logistical support for each SMEs asked to participate in the meeting or workshop to be held in Washington, D.C.-or another location as specified by EPA-for up to two (2) meetings.

Subtask 1.5 – Comment Compilation: NAS shall compile non-consensus input from each SME on topics discussed at the meeting/workshop for delivery to EPA. NAS shall ensure that the compiled comments are in an appropriate format for EPA to post in Regulations.gov chemical-specific docket.

Task 2 – NAS-Led Meetings and Workshops to Support Assessment Development

NAS shall convene and facilitate up to two (2) workshop(s) and/or meeting(s) to support understanding of topic(s) pertinent to assessment development. The workshop(s) and/or meetings(s) are to assist EPA in increasing quality, transparency, and confidence in its assessments by discussing scientific and the public issues related to systematic review, hazard identification, new approach methods (NAM), dose-response, and other issues. NAS shall provide recognized national and international experts an opportunity to discuss critical science topics relevant to CPHEA’s scientific activities (e.g., assessment development).

Subtask 2.1 – Initial meeting: Convene a meeting with the EPA and NAS to review the topics and issues to be discussed at the workshop(s). EPA will identify the topics and review issues via email anticipated to be discussed for each workshop approximately six (6) months before the workshop. If necessary, EPA will provide a one-pager with the necessary background information. This preliminary meeting shall occur within seven (7) days of EPA identifying the topics and anticipated issues.

Subtask 2.2 – Establish a workshop planning committee: NAS shall establish an expert panel of up to 10 experts to organize up to two workshops following its procedures on committee composition, balance, and conflict of interest.

Subtask 2.2 – Establish a workshop agenda and a list of participants: NAS shall convene up to 15 experts to participate in the workshop. NAS shall identify and contact non-federal and federal subject matter experts who are (a) recognized experts in the field(s) and issues relevant to the workshop, (b) represent a range of recognized views on the issues identified by EPA, and (c) are available to present and discuss their research and individual views at the public workshop. Experts with an understanding of regulatory risk assessment (e.g., chemical hazards) are generally preferred. NAS shall provide the EPA TOCOR a proposed list of experts including a biographical sketch, proposed area of expertise for each expert, and if there are any issues regarding potential COI or

impartiality. NAS shall convene a meeting with the EPA TOCOR and ORD management and technical staff to review the proposed list of experts. EPA may provide comments on the proposed list regarding qualifications and COI/impartiality. NAS shall determine who will participate in the workshop.

Subtask 2.3. – Conduct the workshop(s)/meeting(s): NAS shall convene and facilitate up to two (2) workshops/meetings to discuss topics and/or issues pertinent to assessment development. In coordination with the NAS, EPA will provide a general description of the desired goals and outcomes of each workshop/meeting. NAS shall provide EPA with a list of all registrants and participants after the workshop/meeting via email.

Subtask 2.4. – Make arrangements for transportation, lodging and logistical support for each expert asked to participate in the workshop(s)/meeting(s).

NAS shall arrange provision for transportation, lodging, and any other logistical support for the experts' participation in the workshop(s)/meeting(s).

Subtask 2.5 – Develop Workshop Output

NAS shall develop one (1) proceedings-in brief report and one (1) rapporteur report as an output. EPA will identify the appropriate output for each workshop.

Task 3 - Review of EPA's Draft Assessment Document

EPA requests that NAS perform an expert external peer review on one (1) draft CPHEA assessment (e.g., IRIS Toxicological Review) or supporting assessment materials (e.g., IRIS Handbook) to evaluate whether the scientific literature was adequately evaluated by EPA, and whether appropriate methods were developed and used to synthesize the current state-of-the science. The NAS expert peer review committee shall evaluate the assessment's conclusions using the charge questions set forth by EPA and shall not conduct an independent assessment. EPA will identify the topics and review issues via email. If necessary, EPA will provide a one-pager with the necessary background information. Task 3 will consist of three (3) subtasks.

Subtask 3.1. – Establish expert panel

EPA requests that NAS establish an expert panel of up to 15 experts following their procedures on committee composition, balance, and conflict of interest. Recommended areas of expertise include the following:

- Public health risk assessment expertise, especially current experience supporting regulatory decisions in the context of the available scientific information for public health and environmental protection (e.g., state risk assessors). It would be preferable if this expert(s) has demonstrated experience with systematic review methods for environmental exposures;
- Environmental epidemiology, especially in the areas of cancer, reproductive, and respiratory effects (i.e., multiple experts are needed);
- Toxicology, especially in the areas of respiratory effects, neurotoxicology, and/or reproductive/developmental toxicology. It would be useful, but not essential, if one of

these experts had experience with biological modeling (e.g., dosimetric modeling; physiologically-based modeling);

- Exposure measures for observational epidemiology studies of environmental and occupational exposures; and
- Dose-response analysis of environmental chemicals, especially current experience with data analysis for human exposure studies, including observational studies.

Subtask 3.2. – Conduct an independent external peer review and convene a meeting(s)

EPA requests that NAS conduct an independent external peer review of the draft CPHEA assessment or assessment materials (e.g., Toxicological Review of Inorganic Arsenic). In coordination with NAS, EPA will transmit charge questions, along with the external peer review draft assessment materials, prior to the peer review. EPA also requests that NAS organize an external peer review meeting(s) for the peer review panel to discuss the draft assessment with EPA and to include an opportunity for public comment.

Subtask 3.3. – Prepare report based upon listed Tier Levels

The expert peer review committee shall develop, reflecting panel consensus where possible, a final report on their review and evaluation of the EPA document. Within the peer review report, the NAS shall promote clarity and the timely completion of the draft CPHEA assessment materials (e.g., Toxicological Review of Inorganic Arsenic) by prioritizing and/or tiering recommendations provided to EPA under the following system:

Tier 1: Recommended Revisions— Important revisions for EPA to consider and address in order to improve the critical scientific concepts, issues, and/or narrative within the assessment.

Tier 2: Suggested Revisions – Revisions that are encouraged to strengthen or clarify the scientific concepts, issues, and/or narrative within the assessment but are not critical. Other factors (e.g., Agency practice and resources) may need to be considered by EPA before undertaking these revisions.

Tier 3: Future Considerations— Useful and potentially informative scientific exploration that may inform future evaluations of key science issues and/or inform the development of future assessments. These recommendations are likely outside the immediate scope and/or needs of the assessment under review.

VIII. Deliverables

The products of the NAS tasks for activity are as follows:

Task 1 Deliverables

- a) EPA requests that a template for a project milestone chart that will be applied to each meeting be provided to the EPA Contracting Officer (CO), Contract Level Contracting Officer Representative (CL COR), and TOCOR within 30 days of task initiation. This project milestone

chart should detail the significant activities for each meeting/workshop, as well as expected progression of the deliverables.

- b) The primary products for each meeting/workshop are expected to be: (a) proposed and final lists of experts including biographical sketches, which will participate in each of the five (5) meetings or workshops specified by EPA, (b) review of potential COI and partiality issues for each expert and report of any potential issue to the EPA CO, CL COR, and ORD management, and (c) develop a document of compiled comments from each expert to provide to EPA that may be published externally.
- c) Participation of the experts in ORD meetings or workshops. Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the meetings or workshops.

Task 2 Deliverables

- a) EPA requests that written progress reports be provided to the EPA CO, CL COR, and TOCOR quarterly and after each meeting including an update of the project milestones.
- b) For all public meetings requested, the EPA CO, CL COR, and TOCOR shall be informed via email of the time, location, and agenda of the meeting at least 45 days prior to the meeting. All communications regarding public meetings should go through the EPA CO, CL COR, and TOCOR. The NAS shall provide EPA with a final list of all meeting attendees and public commenters within five (5) business days of the meeting.
- c) The primary products for each review are expected to be: (a) proposed and final lists of experts including biographical sketches, which will participate in each of the two (2) meetings or workshops specified by EPA, and (b) review of potential COI and partiality issues for each expert and report of any potential issue to the EPA CO, CL COR, and ORD management.
- d) Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the workshops.
- e) If public websites or similar means are used to disseminate information to the public during the course of this task, the EPA CO, CL COR, and TOCOR shall be notified of the location of such information (e.g., websites), as well as relevant changes to them.
- f) Identified workshop report (proceedings-in brief or rapporteur report).

Task 3 Deliverables

- a) EPA requests that written progress reports be provided to the EPA CO, CL COR, and TOCOR quarterly and after each meeting including an update of the project milestones.
- b) For all public meetings requested, the EPA CO, CL COR, and TOCOR shall be informed via email of the time, location, and agenda of the meeting at least 45 days prior to the meeting. All communications regarding public meetings should go through the EPA CO, CL COR, and TOCOR. The NAS shall provide EPA with a final list of all meeting attendees and public commenters within five (5) working days of the meeting.
- c) The primary products for each review are expected to be: (a) proposed and final lists of experts including biographical sketches, (b) written confirmation that review of potential COI and partiality issues for each expert was completed and report of any potential issue to the EPA CO

ORD management, and the public on the NAS website, (b any submitted public comments, and (c) a final consensus peer review report or summary.

- d) Arrangement and provision of transportation, lodging, and any other logistical support for the experts' participation in the workshops.
- e) If public websites or similar means are used to disseminate information to the public during the course of this task, the EPA CO and TOCOR shall be notified of the location of such information (e.g., websites), as well as relevant changes to them.

IX. ACCEPTANCE CRITERIA

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow, as well as, technical accuracy, completeness, timeliness, grammatically correct, free of typographical errors, and conformance with the specific task, charge and expertise and deliverables of this Performance Work Statement. The technical information shall be reasonable complete and presented in a logical, readable manner. Text deliverables shall be provided in Microsoft Word 2010, Adobe Acrobat or compatible format. Deliverables will be accepted upon review and approval by the TOCOR.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 14	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-ORD-20-00642	
5. PROJECT NO. (If applicable)					
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE			
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x) 9A. AMENDMENT OF SOLICITATION NO.			
National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		9B. DATED (SEE ITEM 11)			
		x 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0025			
		10B. DATED (SEE ITEM 13) 10/18/2019			
CODE 041964057 FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)		Net Increase:		\$59,567.00	
See Schedule					
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
DUNS Number: 041964057					
TOCOR: Dahnish Shams					
LIST OF CHANGES:					
Reason for Modification: The purpose of this modification will be to execute the amended PWS, fund the amendment and to extend the ending date of the period of performance by 12 months.					
Period of Performance End Date changed from 17-OCT-20 to 17-OCT-21					
Total Amount for this Modification: \$59,567.00					
New Total Amount for this Version: \$865,945.00					
Continued ...					
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			William M. Yates		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)				 ELECTRONIC SIGNATURE (Signature of Contracting Officer)	
				16C. DATE SIGNED 05/08/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	68HERC19D0011/68HERC20F0025/P00002	2	14

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>New Total Amount for this Award: \$865,945.00 Obligated Amount for this Modification: \$59,567.00</p> <p>New Total Obligated Amount for this Award: \$865,945.00</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$806,378.00 to \$865,945.00 Obligated Amount for this Modification: \$59,567.00 Incremental Funded Amount changed from \$806,378.00 to \$865,945.00 End Date changed from 17-OCT-20 to 17-OCT-21</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-C-26D1000-000F84-2532-26A5C-2026D1C006-001 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) C Budget Organization 26D1000 Program (PRC) 000F84 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D1C006-001</p> <p>Amount: \$59,567.00</p> <p>Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 10/18/2019 to 10/17/2021</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 14	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0025	
CODE 041964057		FACILITY CODE		10B. DATED (SEE ITEM 13) 10/18/2019	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 041964057

TOCOR: Dahnish Shams

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 09/29/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0025/P00003	PAGE	OF
		2	14

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/18/2019 to 10/17/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors				<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders	
				<input type="checkbox"/>		10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.	
P00004		See Block 16C		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)	
CAD		CAD		CODE	
CAD					
US Environmental Protection Agency					
26 West Martin Luther King Drive					
Mail Code: W136					
Cincinnati OH 45268-0001					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x)		9A. AMENDMENT OF SOLICITATION NO.	
National Academy of Sciences					
Attn: JAMES BURKE				9B. DATED (SEE ITEM 11)	
500 FIFTH STREET NW					
WASHINGTON DC 200012736					
CODE 041964057		FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO.	
				68HERC19D0011	
				68HERC20F0025	
				10B. DATED (SEE ITEM 13)	
				10/18/2019	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
See Schedule					
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
DUNS Number: 041964057					
TOCOR: Dahnish Shams					
LIST OF CHANGES:					
Reason for Modification: The purpose of this admin mod will be to extend the period of performance until Jan 31, 2022.					
Period of Performance End Date changed from 17-OCT-21 to 31-JAN-22					
CHANGES FOR LINE ITEM NUMBER: 1					
End Date changed from 17-OCT-21 to 31-JAN-22					
Continued ...					
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			William M. Yates		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE	
				06/30/2021	
				(Signature of Contracting Officer)	

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	CHANGES FOR DELIVERY LOCATION: ORD CIN Delivery Date changed from 10/17/2020 to 01/31/2022 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/18/2019 to 01/31/2022				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

14

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 11/19/2019		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO:	
3. ORDER NO. 68HERC20F0055		4. REQUISITION/REFERENCE NO. PR-OCSPP-19-00425		a. NAME OF CONSIGNEE OCSPP DC	
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS USEPA OCSPP (Division), MC: RM: WJC East Building 1201 Constitution Ave, NW	
				c. CITY Washington	e. ZIP CODE 20004
7. TO: JAMES BURKE				f. SHIP VIA	
a. NAME OF CONTRACTOR National Academy of Sciences				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 500 FIFTH STREET NW				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON		e. STATE DC	f. ZIP CODE 200012736	Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 05/18/2021	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 New Task Order request under NAS Contract #68HERC19D0011 Task Order: #TBD Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$487,538.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$487,538.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL	

22. UNITED STATES OF AMERICA BY (Signature)

11/19/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 11/19/2019	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0055
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Guidance Document CO: Mark Cranley CS: William Yates, Contract Specialist Acquisition Division: CAD TOCOR: Bryan Lobar ALTOCOR: Stephanie Griffin CL COR: Glennis Reslock ALT CL COR: Jorge Rangel No IT Codes or FITARA necessary TOCOR: BRYAN LOBAR Max Expire Date: 05/18/2021 Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Accounting Info: 19-BT-69W-000CD6-2505-TC6ZXRN-2069DBCX01-001 BFY: 19 Fund: BT Budget Org: 69W Program (PRC): 000CD6 Budget (BOC): 2505 Cost: TC6ZXRN DCN - Line ID: 2069DBCX01-001 Period of Performance: 11/19/2019 to 05/18/2021 New Task Order request under NAS Contract #68HERC19D0011 Task Order: #TBD Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document CO: Mark Cranley CS: William Yates, Contract Specialist Acquisition Division: CAD TOCOR: Bryan Lobar ALTOCOR: Stephanie Griffin CL COR: Glennis Reslock ALT CL COR: Jorge Rangel No IT Codes or FITARA necessary				487,538.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$487,538.00

PERFORMANCE WORK STATEMENT

National Academy of Science, Engineering and Medicine

Contract 68HERC19D0011

Task Order #68HERC20F0055

I. TITLE: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document

EAS Short Title: Strategy for Review of the TSCA SRG Document

II. Task Order Contracting Officer Representative(s):

Task Order Contracting Officer Representative (TOCOR) Name: Bryan Lobar Office: OCSPP-OPPT-EAD-PAB 1200 Pennsylvania Ave NW, Mail code 7408M Washington, DC 20460 Phone: 202-564-7463 Email: lobar.bryan@epa.gov	Alternate Task Order Contracting Officer Representative (Alt. TOCOR) Name: Stephanie Griffin Office: OCSPP-OPPT-TRIPD-RDB 1200 Pennsylvania Ave NW, Mail code 7410M Washington, DC 20460 Phone: 202-564-1463 Email: griffin.stephanie@epa.gov
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III. PERIOD OF PERFORMANCE: Date of Task Order award through 12 months following award.

IV. PURPOSE OF TASK ORDER

The National Academy of Sciences (NAS) will evaluate EPA's Office of Chemical Safety and Pollution Prevention (OCSPP)'s Application of Systematic Review in TSCA Risk Evaluations document and supplementary materials and will develop a review strategy and a report to inform EPA of the recommend revisions to the document.

V. BACKGROUND

The Toxic Substances Control Act (TSCA) is the primary chemicals management law in the United States and was enacted to help ensure the protection of health and the environment against unreasonable risks from chemical substances. On June 22, 2016, the Frank R. Lautenberg Chemical Safety for the 21st Century Act (Pub. L. 114-182) was signed into law, effecting sweeping reforms to TSCA. The new law received significant bipartisan support in Congress and included substantial changes to the EPA's authorities and responsibilities. These amendments, as pertains to this task, include new mandatory deadlines and processes for the

EPA to evaluate existing chemicals; a risk-based standard for addressing unreasonable risks; and science standards such as the use of best available science and weight of evidence in risk evaluations.

TSCA section 6(b)(4) required the EPA to establish, by rule, a process to conduct risk evaluations on existing chemicals. Specifically, the EPA is directed to use this process to “determine whether a chemical substance presents an unreasonable risk of injury to health or the environment, without consideration of costs or other non-risk factors, including an unreasonable risk to a potentially exposed or susceptible subpopulation identified as relevant to the risk evaluation by the Administrator under the conditions of use.” 15 U.S.C. 2605(b)(4)(A). TSCA sections 6(b)(4)(A) through (H) enumerate the deadlines and minimum requirements applicable to this process, including provisions that direct which chemical substances must undergo evaluation, the minimum components of an Agency risk evaluation, and the timelines for public comment and completion of the risk evaluation. The law also requires that the EPA operate in a manner that is consistent with the best available science and make decisions based on the weight of the scientific evidence. 15 U.S.C. 2625(h) and (i).

The EPA’s final rule *Procedures for Chemical Risk Evaluation Under the Amended Toxic Substances Control Act* was published in June 2017 and expressed the EPA’s intent to adopt systematic review principles to meet the statutory requirements of TSCA and enhance the transparency of the risk evaluation process. Systematic review is not explicitly defined in TSCA or in regulations, however EPA incorporated systematic review into the definition of “weight of scientific evidence”. Section 26 of TSCA does require that EPA utilize weight of evidence when evaluating information to inform the risk evaluations. TSCA risk evaluations have a direct nexus to regulatory and risk management implications: if a TSCA risk evaluation identifies unreasonable risk, the EPA is required to eliminate the unreasonable risk.

The EPA’s Office of Pollution Prevention and Toxics (OPPT) has begun building the TSCA program infrastructure to support systematic review and develop approaches and methods to gather, screen, evaluate and integrate multiple information streams (e.g., chemistry, fate, release and engineering information, exposure, environmental hazard, animal toxicity data, *in vitro* data, mode of action studies, epidemiological studies) for risk assessment purposes.

On June 1, 2018, OPPT published and solicited comments on the *Application of Systematic Review in TSCA Risk Evaluations* document. The guidance document describes the general systematic review principles and structured process for identifying, evaluating and integrating evidence. In the publication of this document, EPA stated “EPA/OPPT expects to document the progress of implementing systematic review in the draft risk evaluations and through revisions of this document and publication of supplemental documents”.

The *Application of Systematic Review in TSCA Risk Evaluations* document introduces a detailed approach for assessing data quality using a scoring methodology for various information streams tailored to support TSCA risk evaluations. The EPA is using this document in the development of the first ten risk evaluations required under the TSCA amendments. The document also discusses general principles to integrate evidence with additional details included in the draft TSCA risk evaluations.

In addition to the *Application of Systematic Review in TSCA Risk Evaluations* document, the NAS will have the benefit of:

- the public comments on the document;
- EPA's responses to public comments; and
- The enumerated enhancements of OCSPP's systematic review process as incorporated into the first 10 risk evaluations (e.g., updates to the epidemiology sections).

The EPA expects to update the *Application of Systematic Review in TSCA Risk Evaluations* document to be responsive to the public comments received, the relevant comments of the Science Advisory Committee on Chemicals (SACC) peer reviews of the 10 risk evaluations, and the advice received from the NAS in its report to EPA while at the same time continuing to provide a transparent and robust systematic review process under the requirements of TSCA. EPA has learned a great deal in applying systematic review to the initial 10 risk evaluations; these learnings will inform subsequent risk evaluations.

VI. SCOPE OF WORK

The NAS shall evaluate EPA's Office of Chemical Safety and Pollution Prevention (OCSPP)'s *Application of Systematic Review in TSCA Risk Evaluations* document and supplementary materials and shall develop a report to inform EPA's OCSPP of the required revisions to the document. See VII Description of Tasks below.

VII. DESCRIPTION OF TASKS

TASKS

The NAS shall convene a committee to review the *Application of Systematic Review in TSCA Risk Evaluations* (June 1, 2018) document. The tasks are the following:

1. Reporting Requirements: The contractor shall write and submit monthly progress reports to the Task Order Contracting Officer Representative (TOCOR). Progress reports shall describe completed work during the invoice period and should link to charges described in invoice documentation. Routine progress reports shall include a written monthly technical progress report that includes the following in the case of each project that the contractor is involved in during the month: (a) an overview of work accomplished since project inception to to-date (b) a description of work accomplished during the month, (c) a summary of QA/QC activities since project inception including a

summary of corrective action taken (d) a brief summary of anticipated work during the following month, (e) a summary and details of the costs incurred for each task during the month and cumulatively, and (f) total remaining budget. This report shall also be issued to the Contract-Level COR. Routine progress reports shall be delivered electronically; paper copies are not required.

2. The NAS will establish an expert committee following its procedures on committee composition, balance, and conflict of interest. Recommended areas of expertise are specified below. The EPA may offer suggestions of potential committee members to be considered by the NAS during its nominations process. EPA may also comment on the proposed committee membership during the 20-day comment period. The NAS shall ultimately select the committee members.
3. The NAS shall organize at least one (1) public committee meeting/workshop to discuss the charge to the committee and provide input to the committee in support of its report.
4. The NAS shall arrange for transportation, lodging and logistical support for each expert asked to participate in the public committee meeting/workshop to be held in Washington, D.C. or another location as specified by EPA.
5. The NAS shall convene the committee either via phone or in-person for deliberation following the public meeting/workshop and as needed to complete the final report.
6. The NAS shall write a report summarizing the NAS committee's findings and recommendations in response to the charge to the committee.

Charge to the Expert Committee

Specifically, the Committee shall answer and provide feedback:

1. Does the *Application of Systematic Review in TSCA Risk Evaluations* document (June 1, 2018) and any other supplemental material provided (e.g., peer review and public comment, and changes made during the application of the process) that reflect possible changes to the document, represent a comprehensive, workable, objective, and transparent process?
2. Given EPA's anticipated changes to the *Application of Systematic Review in TSCA Risk Evaluations* document (June 1, 2018), does the committee have further enhancements for EPA's consideration?

Provide EPA with expert advice with respect to potential updates to the *Application of Systematic Review in TSCA Risk Evaluations* document that would incorporate the lessons learned from the application of the guidance in the initial 10 TSCA risk evaluations and be responsive to public comments received.

Expertise Required

NAS shall identify a proposed group of subject matter experts to serve on the committee, not to exceed twelve (12), who:

1. are recognized experts in the fields relevant to the request including:
 - systematic review
 - exposure assessment
 - human health hazard and dose-response assessment
 - epidemiology
 - ecological and human health risk assessmentand
2. have been evaluated for conflict of interest or lack of impartiality in accordance with establish NAS procedures.

DELIVERABLES

1. Written monthly progress reports shall include work completed during the month, work projected for the next month, a summary of expenditures for the period, and cumulative expenditures through the end of the reporting period. The written progress reports shall be delivered via email to the TOCOR, Contract Level Contracting Officer Representative (CL COR), and CO.
2. Proposed and final lists of experts including biographical sketches who will participate in the public meeting(s)/workshop(s) to the TOCOR and report of any potential conflict of issue (if applicable) to the EPA CO.
3. Organization, hosting, note taking, and facilitation of at least one (1) public committee meeting/workshop regarding the subject of the charge to the committee.
4. Maintenance of a public “docket,” available through the NAS website or Public Access Files that contains written public comments and presentations for the aforementioned meetings/workshops.
5. Participation of the experts in at least one (1) public committee meeting/workshop. Arrangement and provision of transportation, lodging, and any other logistical support for the experts’ participation in the public committee meetings(s)/workshop(s).
6. Participation of the experts in subsequent meetings and/or conference calls. Arrangement and provision of transportation, lodging, and any other logistical support for the experts’ participation in the (public) meeting and/or conference calls.
7. A report presenting the NAS committee’s findings and recommendations regarding the charge of the committee and summarizing the process followed by the committee to develop those findings and recommendations will be delivered within 7 months of the TO award. The committee will strive to develop consensus where possible while describing the range of views for issues where a consensus cannot be reached.

VIII. ACCEPTANCE CRITERIA

The Contractor shall prepare high quality products that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Technical accuracy, completeness, timeliness, grammatically correct, free of typographical errors, and conformance with the specific task, charge and expertise and deliverables of this Performance Work Statement. Text deliverables shall be provided in Microsoft Word 2010, Adobe Acrobat, or compatible format. Deliverables will be accepted upon review and approval by the TOCOR.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1	14
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C		PR-OCSP-19-00425			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)			
National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X			
				10A. MODIFICATION OF CONTRACT/ORDER NO.			
				68HERC19D0011			
				68HERC20F0055			
				10B. DATED (SEE ITEM 13)			
				11/19/2019			
CODE 041964057		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
New Task Order request under NAS Contract #68HERC19D0011							
Task Order: #TBD							
Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document							
CO: Mark Cranley							
CS: William Yates, Contract Specialist							
Acquisition Division: CAD							
TOCOR: Bryan Lobar							
ALTOCOR: Stephanie Griffin							
CL COR: Glennis Reslock							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 11/21/2019	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
68HERC19D0011/68HERC20F0055/P00001PAGE OF
2 14NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>ALT CL COR: Jorge Rangel No IT Codes or FITARA necessary TOCOR: BRYAN LOBAR Max Expire Date: 11/18/2020 LIST OF CHANGES:</p> <p>Reason for Modification: The purpose of this modification is to correct the period of performance to show a 12 month period of performance. All other conditions remain the same.</p> <p>Period Of Performance End Date changed from 18-MAY-21 to 18-NOV-20</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 End Date changed from 18-MAY-21 to 18-NOV-20</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 11/19/2019 to 11/18/2020</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
National Academy of Sciences							
Attn: JAMES BURKE						9B. DATED (SEE ITEM 11)	
500 FIFTH STREET NW							
WASHINGTON DC 200012736							
CODE		FACILITY CODE		x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
041964057						68HERC19D0011	
						68HERC20F0055	
						10B. DATED (SEE ITEM 13)	
						11/19/2019	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
New Task Order request under NAS Contract #68HERC19D0011							
Task Order: #TBD							
Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document							
CO: Mark Cranley							
CS: William Yates, Contract Specialist							
Acquisition Division: CAD							
TOCOR: Bryan Lobar							
ALTOCOR: Stephanie Griffin							
CL COR: Glennis Reslock							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 08/07/2020	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
68HERC19D0011/68HERC20F0055/P00002PAGE OF
2 14NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>ALT CL COR: Jorge Rangel</p> <p>No IT Codes or FITARA necessary</p> <p>TOCOR: BRYAN LOBAR Max Expire Date: 03/03/2021</p> <p>LIST OF CHANGES:</p> <p>Reason for Modification: The purpose of this administrative mod is to extend the period of performance to March 3, 2021.</p> <p>Period Of Performance End Date changed from 18-NOV-20 to 03-MAR-21</p> <p>Maximum Potential Expiration Date changed to : 03/03/2021</p> <p>Payment:</p> <p>RTP Finance Center</p> <p>US Environmental Protection Agency</p> <p>RTP-Finance Center (AA216-01)</p> <p>109 TW Alexander Drive</p> <p>www2.epa.gov/financial/contracts</p> <p>Durham NC 27711</p> <p>Period of Performance: 11/19/2019 to 03/03/2021</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00003		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(X)			
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0055			
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13)			
041964057				11/19/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
New Task Order request under NAS Contract #68HERC19D0011							
Task Order: #TBD							
Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document							
CO: Mark Cranley							
CS: William Yates, Contract Specialist							
Acquisition Division: CAD							
TOCOR: Bryan Lobar							
ALTOCOR: Stephanie Griffin							
CL COR: Glennis Reslock							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 08/07/2020	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
68HERC19D0011/68HERC20F0055/P00003PAGE OF
2 14NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>ALT CL COR: Jorge Rangel</p> <p>No IT Codes or FITARA necessary</p> <p>TOCOR: BRYAN LOBAR Max Expire Date: 03/31/2021</p> <p>LIST OF CHANGES:</p> <p>Reason for Modification: The purpose of this administrative mod will be to correct the ending date of the period of performance to March 31, 2021</p> <p>Period Of Performance End Date changed from 03-MAR-21 to 31-MAR-21</p> <p>Maximum Potential Expiration Date changed to : 03/31/2021</p> <p>Payment:</p> <p>RTP Finance Center</p> <p>US Environmental Protection Agency</p> <p>RTP-Finance Center (AA216-01)</p> <p>109 TW Alexander Drive</p> <p>www2.epa.gov/financial/contracts</p> <p>Durham NC 27711</p> <p>Period of Performance: 11/19/2019 to 03/31/2021</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00004		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) National Academy of Sciences Attn: JAMES BURKE 500 FIFTH STREET NW WASHINGTON DC 200012736				(X)			
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0011 68HERC20F0055			
CODE		FACILITY CODE		10B. DATED (SEE ITEM 13)			
041964057				11/19/2019			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 041964057							
New Task Order request under NAS Contract #68HERC19D0011							
Task Order: #TBD							
Title: Strategy for Review of the Toxic Substances Control Act Systematic Review Guidance Document							
CO: Mark Cranley							
CS: William Yates, Contract Specialist							
Acquisition Division: CAD							
TOCOR: Bryan Lobar							
ALTOCOR: Stephanie Griffin							
CL COR: Glennis Reslock							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 09/29/2020	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
68HERC19D0011/68HERC20F0055/P00004PAGE OF
2 14NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	ALT CL COR: Jorge Rangel No IT Codes or FITARA necessary TOCOR: BRYAN LOBAR Max Expire Date: 03/31/2021 The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged. Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 11/19/2019 to 03/31/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)
Prescribed by GSA FAR (48 CFR) 53.243

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

15

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 12/05/2019		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO: a. NAME OF CONSIGNEE Office of Research and Development	
3. ORDER NO. 68HERC20F0062		4. REQUISITION/REFERENCE NO. See Schedule			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: JAMES BURKE a. NAME OF CONTRACTOR National Academy of Sciences b. COMPANY NAME				f. SHIP VIA	
c. STREET ADDRESS 500 FIFTH STREET NW				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON				e. STATE DC	f. ZIP CODE 200012736
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 12/04/2020	
				16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 TOCOR: SARAH TAFT Max Expire Date: 12/04/2020 Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$10,000.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$10,000.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF
AMERICA BY (Signature)

12/05/2019

ELECTRONIC
SIGNATURE

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES

PAGE NO

SCHEDULE - CONTINUATION

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER		CONTRACT NO.			ORDER NO.	
12/05/2019		68HERC19D0011			68HERC20F0062	
ITEM NO.	SUPPLIES/SERVICES	QUANTITY ORDERED	UNIT	UNIT PRICE	AMOUNT	QUANTITY ACCEPTED
(a)	(b)	(c)	(d)	(e)	(f)	(g)
0001	<p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 12/05/2019 to 12/04/2020</p> <p>New Task Order Request under NAS Contract #68HERC19D0011. Funding for New NAS Task Order - (NERL) Title: Support for the Disaster Research Response Action Collaborative; \$5,000.00</p> <p>NAS Contract: 68HERC19D0011 TO No.: TBD TOCOR: Sarah Taft ALTOCOR: Erin Silvestri CO: Mark Cranley CS: William Yates Acquisition Division: CAD CL COR: Glennis Reslock ALT CL COR: Jorge Rangel NO IT Codes or FITARA necessary</p> <p>NOTE: PR-ORD-19-02421 (NHSRC) \$5,000.00 is in tandem to PR-ORD-19-02416 (NERL) \$5,000.00 for GRAND TOTAL: \$10,000.00 Task Order ALL required supporting documents are located in EAS PR-ORD-19-02416 Supporting Documents. Requisition No: PR-ORD-19-02416, PR-ORD-19-02421</p> <p>Accounting Info: 19-20-C-26UU000-000FK6XR1-2532-26A6A-1 926UUE048-001 BFY: 19 EFY: 20 Fund: C Budget Org: 26UU000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A6A DCN - Line ID: 1926UUE048-001 Funding Flag: Partial Funded: \$5,000.00 Accounting Info: 19-20-C3-264R000-000F72-2532-26A5C-192 Continued ...</p>				10,000.00	
TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))					\$10,000.00	

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER
12/05/2019

CONTRACT NO.
68HERC19D0011

ORDER NO.
68HERC20F0062

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	64RE003-001 BFY: 19 EFY: 20 Fund: C3 Budget Org: 264R000 Program (PRC): 000F72 Budget (BOC): 2532 Job #: HQ00BG00 Cost: 26A5C DCN - Line ID: 19264RE003-001 Funding Flag: Partial Funded: \$5,000.00					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)
Contract #68HERC190011

PR-ORD-19-02416 (NERL)
PR-ORD-19-02421 (NHSRC)

Task Order #68HE0C20F0062

I. TITLE: Support for the Disaster Research Response Action Collaborative

EAS Short Title: Disaster Research Response Action Collaborative

II. Task Order Contracting Officer Representative(s):

Task Order Contracting Officer Representative (TOCOR) Name: Sarah Taft Office: USEPA/ORD/NHSRC/TCAD 26 West Martin Luther King Drive Mail Code: NG16 Cincinnati, OH 45268 Phone: 513-569-7037 FAX: 513-487-2555 Email: taft.sarah@epa.gov	Alternate Task Order Contracting Officer Representative (Alt. TOCOR) Name: Erin Silvestri Office: USEPA/ORD/NHSRC/TCAD 26 West Martin Luther King Drive Mail Code: NG16 Cincinnati, OH 45268 Phone: 513-569-7619 FAX: 513-487-2555 Email: silvestri.erin@epa.gov
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III. PERIOD OF PERFORMANCE: 12 Months from date of TO award

IV. PURPOSE OF TASK ORDER

EPA is requesting two (2) meetings of the Action Collaborative on Disaster Science working group. The outcome of these meetings will be an outline of processes, priorities, and opportunities for advancing the development and implementation of research following a disaster including ensuring community engagement in process and to define processes for expanding and enhancing a coordinated network of disaster researchers.

V. BACKGROUND

The National Academies of Science (NAS) is convening an Action Collaborative on Disaster Science in collaboration with National Institutes of Health and other federal agencies to: 1) foster improved processes and platforms for developing and implementing needed time-critical data collection and research in response to disasters; 2) identify evidence-based mechanisms and opportunities for conducting and sharing information gathered from public health research during disasters; 3) engage cross-sector stakeholders in development, refinement, and promotion of disaster research opportunities and best practices; 4) provide a venue to support the development and maintenance of a rapid response mechanism for the National Academies to continue to meet sponsor needs for convening, idea generation and information sharing during the initial stages of a public health emergency.

Action Collaboratives engage participants with similar interests and responsibilities in cooperative activities that analyze in-depth high-priority issues, advance identified goals, and make progress on recommendations from previous National Academies consensus reports.

Collaboratives are participant-driven, action-oriented activities that foster collaboration and information sharing among members and external thought leaders and stakeholders.

Collaboratives may:

- identify issues of common interest and marshal needed leadership, expertise, and resources;
- highlight potential paths forward through, e.g., individually authored (or small group) literature summaries or discussion papers or through the convening of technical discussions;
- engage in cooperative development of tools needed for progress;
- incubate and pilot-test novel approaches; and
- develop proposals for formal workshops and studies for consideration by the National Academies.

Each action collaborative is an ad hoc activity, associated with a Forum or Roundtable, at the National Academies. The work it produces does not necessarily represent the views of any one organization, the parent Forum, or the National Academies, and has not been subjected to the review procedures

The Action Collaborative will include members, chosen for their professional expertise in developing, conducting, and promoting disaster-related research as well as their general scientific and/or disaster medicine/public health/emergency management credentials. Expertise may include grant management (e.g., as a Principal Investigator), emergency management, homeland security, environmental health and geosciences, toxicology, behavioral/psychosocial/mental health, data science/ bioinformatics, health care, public health, public policy, risk communications, health disparities and community engagement, and human subjects' research/bioethics.

VI. SCOPE OF WORK

The National Academies of Science (NAS) is convening an Action Collaborative on Disaster Science in collaboration with National Institutes of Health and other federal agencies, including the Environmental Protection Agency (EPA). EPA shall participate in two (2) meetings on-site at NAS that shall bring together interested stakeholders for the purpose of improving needed data collection, disaster research processes, and facilitating multidisciplinary networks of disaster researchers. The outcome of these meetings shall be an outline of processes, priorities, and opportunities for advancing the development and implementation of research following a disaster including ensuring community engagement in process and to define processes for expanding and enhancing a coordinated network of disaster researchers.

VII. DESCRIPTION OF TASKS

Task 1 – Kick-off Call for TO

Convene a meeting with the Task Order Contracting Officer Representative (TOCOR), and relevant ORD technical staff, to review the issues to be discussed at future Action Collaborative meetings. This meeting shall occur within 14 days of acceptance of this task order.

Task 1. Deliverables

Task	SubTask	Deliverable	Schedule
1	NA	TO Kickoff Call Meeting minutes	Within 14 days of acceptance of this TO

Task 2 – Action Collaborative Meetings

Organize and support two on-site Action Collaborative meetings at the NAS headquarters in the next 10 months. The meetings will bring together interested stakeholders for the purpose of improving needed data collection and disaster research processes and facilitating multidisciplinary networks of disaster researchers.

Task 2. Deliverables

Task	SubTask	Deliverable	Schedule
2	NA	Action Collaborative Meeting Minutes	Within 14 days from end of meetings

Task 3 – Draft Report

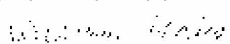
Draft report outlining/defining processes, priorities, and opportunities for advancing the development and implementation of research following a disaster, including discussions of community engagement and data sharing practices 90 days following the second meeting.

Task 3. Deliverables

Task	SubTask	Deliverable	Schedule
3	NA	Draft Report	Within 90 days following the second meeting

VIII. ACCEPTANCE CRITERIA

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow. The technical information shall be reasonable complete and presented in a logical, readable manner. Text deliverables shall be provided in Microsoft Word 2010 or compatible format.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES									
						1 14									
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)									
P00001		See Block 16C													
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE									
CAD															
CAD															
US Environmental Protection Agency															
26 West Martin Luther King Drive															
Mail Code: W136															
Cincinnati OH 45268-0001															
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)											
National Academy of Sciences															
Attn: JAMES BURKE															
500 FIFTH STREET NW															
WASHINGTON DC 200012736															
				9A. AMENDMENT OF SOLICITATION NO.											
				9B. DATED (SEE ITEM 11)											
				X 10A. MODIFICATION OF CONTRACT/ORDER NO.											
				68HERC19D0011											
				68HERC20F0062											
				10B. DATED (SEE ITEM 13)											
				12/05/2019											
CODE 041964057		FACILITY CODE													
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS															
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.															
12. ACCOUNTING AND APPROPRIATION DATA (If required)															
See Schedule															
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">CHECK ONE</td> <td>A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.</td> </tr> <tr> <td style="text-align: center;">X</td> <td>B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).</td> </tr> <tr> <td></td> <td>C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:</td> </tr> <tr> <td></td> <td>D. OTHER (Specify type of modification and authority)</td> </tr> </table>								CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.	X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).		C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:		D. OTHER (Specify type of modification and authority)
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.														
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).														
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:														
	D. OTHER (Specify type of modification and authority)														
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.															
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)															
DUNS Number: 041964057															
TOCOR: SARAH TAFT Max Expire Date: 12/04/2020															
The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.															
Continued ...															
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.															
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)											
				William M. Yates											
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED									
				 (Signature of Contracting Officer)		09/29/2020									
(Signature of person authorized to sign)															

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 12/05/2019 to 12/04/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

14

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 12/19/2019		2. CONTRACT NO. (If any) 68HERC19D0011		6. SHIP TO:	
3. ORDER NO. 68HERC20F0083		4. REQUISITION/REFERENCE NO. See Schedule		a. NAME OF CONSIGNEE OAR/OTAQ/NVFEL/TRPD	
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Agency National Vehicle and Fuel Emissions 2565 Plymouth Road	
				c. CITY Ann Arbor	e. ZIP CODE 48105
7. TO: JAMES BURKE				f. SHIP VIA	
a. NAME OF CONTRACTOR National Academy of Sciences				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 500 FIFTH STREET NW				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY WASHINGTON		e. STATE DC	f. ZIP CODE 200012736	Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))				12. F.O.B. POINT	
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 12/18/2021	
a. INSPECTION Destination	b. ACCEPTANCE Destination			16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 041964057 National Academy of Sciences (NAS); 68HERC19D0011; New Task Order; "NAS-TRB Core Support"; \$140,000; POC: Luke Vermeulen (OAR-OTAQ-TCD) TOCOR: LUKE VERMEULEN Max Expire Date: Continued ...					
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:						
a. NAME RTP Finance Center						
b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711		\$148,920.00	17(i) GRAND TOTAL
SEE BILLING INSTRUCTIONS ON REVERSE						

22. UNITED STATES OF AMERICA BY (Signature) 12/19/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 12/19/2019	CONTRACT NO. 68HERC19D0011	ORDER NO. 68HERC20F0083
-----------------------------	-------------------------------	----------------------------

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>12/18/2021</p> <p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001</p> <p>Period of Performance: 12/19/2019 to 12/18/2021</p> <p>Request New Task Order under National Academy of Sciences (NAS) Contract #68HERC19D0011</p> <p>Title: "NAS-TRB Core Support"</p> <p>TOCOR: Luke Vermeulen (OAR-OTAQ-TCD)</p> <p>CO: Mark Cranley</p> <p>CS: William Yates</p> <p>Acquisition Division: MSN SPT ORD ORDERS</p> <p>CL COR: Glennis Reslock</p> <p>ALT COR: Jorge Rangel</p> <p>No IT Codes or FITARA necessary</p> <p>Requisition No: PR-OAR-20-00061, PR-OAR-20-00291</p> <p>Accounting Info: 19-20-C-56F1-000A61-2505-2056F90173-00 1 BFY: 19 EFY: 20 Fund: C Budget Org: 56F1 Program (PRC): 000A61 Budget (BOC): 2505 DCN - Line ID: 2056F90173-001 Funding Flag: Partial Funded: \$140,000.00</p> <p>Accounting Info: 20-21-C-56F1-000A61-2505-2056F00014-00 1 BFY: 20 EFY: 21 Fund: C Budget Org: 56F1 Program (PRC): 000A61 Budget (BOC): 2505 DCN - Line ID: 2056F00014-001 Funding Flag: Partial Funded: \$8,920.00</p>				148,920.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$148,920.00

PERFORMANCE WORK STATEMENT

National Academy of Sciences (NAS)

Contract #68HERC19D0011

PR-OAR-20-00061

Task Order #68HE0C20F0083

I. TITLE: NAS Transportation Research Board Core Support

EAS Short Title: NAS TRB Core Support

II. Task Order Contracting Officer Representative(s):

Task Order Contracting Officer Representative (TOCOR) Name: Luke Vermeulen Office: OAR-OTAQ-TCD 2000 Traverwood Drive Ann Arbor, MI 48197 Phone: 734-214-4338 Email: Vermeulen.Luke@epa.gov	Alternate Task Order Contracting Officer Representative (Alt. TOCOR) Name: Nicholas Witkowski Office: OAR-OTAQ-TDC 2000 Traverwood Drive Ann Arbor, MI 48197 Phone: 734-214-4174 Email: Witkowski.Nicholas@epa.gov
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III. PERIOD OF PERFORMANCE: Two (2) years from date of Task Order issuance.

IV. PURPOSE OF TASK ORDER

The Transportation Research Board (TRB) is a program unit of the National Academy of Sciences (NAS). It is also one of six major divisions of the National Research Council (NRC), which serves as an independent adviser to the federal government and other stakeholders on scientific and technical questions of national importance, and which is jointly administered by the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

TRB provides leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. TRB is supported by state transportation departments, federal agencies, and other organizations and individuals interested in the development of transportation.

The purpose of this task order is to provide support to the TRB at the “Core” level and to receive from TRB the commensurate benefits of such support. “Core” level support is financial support that federal, state and local government agencies provide to TRB in order to support its core technical activities. This includes transportation research, education, and the development of solutions to problems and issues facing transportation professionals.

V. BACKGROUND

In support of its regulatory mandates, the U.S. Environmental Protection Agency (EPA) has active research at the nexus of transportation and the environment including issues of air quality, greenhouse gas emissions, alternative transportation fuels, smart growth, and energy security.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services that also greatly benefit the work of the EPA. The EPA has benefited greatly over the past decade through its continued support of TRB as it furthers its research efforts.

VI. SCOPE OF WORK

TRB shall provide the EPA with all the benefits commensurate with “Core” level program support. These specific benefits are defined in the below description of tasks and shall be available immediately to the EPA when “Core” level support begins. EPA will provide TRB with two (2) calendar years of “Core” level support from the date of issuance of this Task Order.

VII. DESCRIPTION OF TASKS

Task 1.1: TRB shall provide unlimited registrations to the TRB Annual Meeting for all EPA employees

Task 1.2: If requested by the Task Order Contracting Officer Representative (TOCOR), TRB shall provide EPA with meeting facilities and an exhibit booth at the Annual Meeting (based on availability).

Task 1.3: TRB shall provide the EPA with representation on the TRB Executive Committee

Task 1.4: Delivery of all TRB hard copy publications (up to 200 per year). TRB shall maintain and update a mailing list for distribution of publications to EPA staff as designated by the TOCOR.

Task 1.5: Full online access to all the Transportation Research Records: “Journal of the Transportation Research Board” papers published since 1999. The Record Series consists of the papers from the Annual Meeting that are chosen for publication.

Task 1.6: TRB standing technical committees currently sponsor or co-sponsor 25-30 conferences and more than 100 workshops annually on a wide range of subjects. EPA employees shall be eligible for discounted registration fees for many of these conferences.

Task 1.7: EPA employees shall have free access to all collected TRB Annual Meeting PowerPoint presentations, posters, and the Annual Meeting Compendium of Papers.

Task 1.8: TRB shall schedule visits with EPA and establish liaison representatives as appropriate. A summary of the results of these visits is printed annually in the TRNews - which is distributed to more than 10,000 subscribers.

Task 1.9: All EPA employees shall have access to TRB's Library and to TRID. TRID is a newly integrated database that combines the records from TRB's Transportation Research Information Services (TRIS) Database and the OECD's Joint Transport Research Centre's International Transport Research Documentation (ITRD) Database. TRID provides access to over 900,000 records of transportation research worldwide – with more than 50,000 records linked to full-text documents. TRID is also indexed with a standardized vocabulary from the Transportation Research Thesaurus (TRT). The Research in Progress (RiP) records in TRID are available as a separate searchable database through TRB. RiP has expanded to include international research projects and university research.

Task 1. Deliverables

Task	Deliverable	Schedule
1.1	Unlimited registrations to the TRB Annual Meeting for all EPA employees.	All deliverables will be immediately available upon Task Order issuance and for the duration of the Task Order
1.2	Meeting facilities and an exhibit booth at the Annual Meeting (based on availability).	
1.3	Representation on the TRB Executive Committee.	
1.4	Delivery of all TRB hard copy publications (up to 200 per calendar year).	
1.5	Full online access to all the Transportation Research Records: Journal of the Transportation Research Board papers published since 1999.	
1.6	Discounted registration fees for standing technical committee conference and workshops.	
1.7	Free access to all collected Annual Meeting PowerPoint presentations, posters, and the Annual Meeting Compendium of Papers.	
1.8	Visit with EPA and establish liaison representatives as appropriate.	
1.9	Full access to TRB's Library and to TRID.	

VIII. ACCEPTANCE CRITERIA

The Contractor shall prepare high quality products and that are reproducible and transparent. Figures submitted shall be of high quality similar to presentations developed for national scientific forums and should be formatted as jpeg or TIFF files. Deliverables shall be edited for grammar, spelling, and logic flow. The technical information shall be reasonable complete and presented in a logical, readable manner. Text deliverables shall be provided in Microsoft Word 2016 or compatible format.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 14	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
National Academy of Sciences							
Attn: JAMES BURKE						9B. DATED (SEE ITEM 11)	
500 FIFTH STREET NW							
WASHINGTON DC 200012736							
				x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						68HERC19D0011	
						68HERC20F0083	
						10B. DATED (SEE ITEM 13)	
						12/19/2019	
CODE 041964057		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)							
DUNS Number: 041964057							
National Academy of Sciences (NAS); 68HERC19D0011; New Task Order; "NAS-TRB Core Support"; \$140,000; POC: Luke Vermeulen (OAR-OTAQ-TCO)							
TOCOR: LUKE VERMEULEN Max Expire Date: 12/18/2021							
The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 09/29/2020	
(Signature of person authorized to sign)							

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0011/68HERC20F0083/P00001	PAGE	OF
		2	14

NAME OF OFFEROR OR CONTRACTOR
National Academy of Sciences

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 12/19/2019 to 12/18/2021				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors				<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER	
				<input type="checkbox"/>		9B. DATED (SEE ITEM 11)	
				<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders	
				<input type="checkbox"/>		10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)